

## SEQUENCE LISTING

&lt;110&gt; Merck &amp; Co., Inc.

<120> DNA MOLECULES ENCODING HG51, A  
G PROTEIN-COUPLED RECEPTOR

&lt;130&gt; 20351 PCT

&lt;150&gt; 60/109,717

&lt;151&gt; 1998-11-24

&lt;160&gt; 15

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 1537

&lt;212&gt; DNA

&lt;213&gt; Homo sapien (human)

<400> 1					
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ctgagcgcc	ccgccccccca	ggcgcgccgg	cgccggggcc	tgtactcg	180
ggcgccacg	gctactggg	cgcgccgggg	gccgcggggc	ctgagggggc	240
gggacactga	gcccccgcc	cctcttcagc	cccgccaccc	ggcgctgctg	300
ctgggctcca	ttgggctgt	gggcgtcggc	aacaacctgc	tggtgcgtcg	360
aagttccacg	ggctccgcac	tcccactcac	ctccctctgg	tcaacatcag	420
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gtgtgggaca	ccgtggctg	cgtgtggac	gggttagcg	gaacgcctt	540
tccattgcca	ccctaaccgt	gctggctat	gaacgttaca	tgcgtcggt	600
gtgatcaatt	tttcctgggc	ctggaggggc	attacctaca	tctggctcta	660
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cttggctgcc	tgggggtgcc	cctgggtgtc	atagcccatt	gctatggcca	840
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aaatatgaaa	agaaactggc	caaaatgtgc	ttttaatga	tattcacctt	960
tggatgcctt	atatcgat	ctgcttcgg	gtggtaatg	cctggctgt	1020
ccaaacatat	ctattgttc	gtacctttt	gtctaaatcga	aatccatgt	1080
atttatgtct	tcatgatcag	aaagttcga	agatccctt	tgcagctt	1140
ctgctgaggt	gccagaggcc	tgctaaagac	ctaccagcag	ctggaagtga	1200
agacccattg	tgtatgcaca	gaaagatggg	gacaggccaa	aatgcagatc	1260
tcttcattcca	tcattttat	catcaccagt	gatgaatcac	tgtcagttga	1320
aaaacccaatg	ggtccaaatg	tgtatgtatc	caagttcg	cgacagcgac	1380
gcaacgaaag	atggggcctt	aaattggatg	ccactttgg	atgaagaatg	1440
ctgaaatacc	cgttctatgt	aatatcaaca	gaaccttgc	gtccagcagg	1500
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&lt;210&gt; 2

&lt;211&gt; 402

&lt;212&gt; PRT

&lt;213&gt; Homo sapien (human)

<400> 2  
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 20 25 30  
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu  
 35 40 45  
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val  
 50 55 60  
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu  
 65 70 75 80  
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr  
 85 90 95  
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val  
 100 105 110  
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser  
 115 120 125  
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val  
 130 135 140  
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr  
 145 150 155 160  
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp  
 165 170 175  
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp  
 180 185 190  
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu  
 195 200 205  
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His  
 210 215 220  
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr  
 225 230 235 240  
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met  
 245 250 255  
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile  
 260 265 270  
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro  
 275 280 285  
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr  
 290 295 300  
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu  
 305 310 315 320  
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys  
 325 330 335  
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met  
 340 345 350  
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser  
 355 360 365  
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp  
 370 375 380  
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg  
 385 390 395 400  
 Pro Leu

&lt;210&gt; 3

<211> 395  
 <212> DNA  
 <213> Homo sapien (human)

<400> 3  
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 tgcattttgtg actggaaactc ttctcgaaga ggctgcccgtt aaacccgtcc cacacgcac 180  
 ccacgggtgtc ccacacccag ccgttcctca ggcaggacac gaaggtaaaag gtgacccgaa 240  
 agaggtacac agcaggtcgc tgaggctgat gttgaccagg aggaggtgag tgggagtgcg 300  
 gagcgcttggaa actttagtta gaggacgagc accagcagggt tgttgcccac gcccagcagc 360  
 ccaatggaggcc acagcaggccctt cgtgc 395

<210> 4  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 4  
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<210> 5  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 5  
 gcgcggccgc acgggtatttc cagacacttc 30

<210> 6  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 6  
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<210> 7  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 7

caacaacctg ctggtgctcg tc 22

<210> 8  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 8  
gctgggcgtc ggcaacaa 18

<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 9  
caggcaggac acgaaggtaa 20

<210> 10  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 10  
ggtcgctgag gctgatgttg ac 22

<210> 11  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide

<400> 11  
ggggatgtgc tgcaaggcga 20

<210> 12  
<211> 22  
<212> DNA  
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<220>  
<223> Oligonucleotide

<400> 12

ccagggtttt cccagtcacg ac

22

<210> 13  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 13  
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25

<210> 14  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide

<400> 14  
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25

<210> 15  
 <211> 348  
 <212> PRT  
 <213> Homo sapien (human)

<400> 15  
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 Thr Gly Val Val Arg Ser Pro Phe Glu Tyr Pro Gln Tyr Tyr Leu Ala  
 20 25 30  
 Glu Pro Trp Gln Phe Ser Met Leu Ala Ala Tyr Met Phe Leu Leu Ile  
 35 40 45  
 Val Leu Gly Phe Pro Ile Asn Phe Leu Thr Leu Tyr Val Thr Val Gln  
 50 55 60  
 His Lys Lys Leu Arg Thr Pro Leu Asn Tyr Ile Leu Leu Asn Leu Ala  
 65 70 75 80  
 Val Ala Asp Leu Phe Met Val Leu Gly Gly Phe Thr Ser Thr Leu Tyr  
 85 90 95  
 Thr Ser Leu His Gly Tyr Phe Val Phe Gly Pro Thr Gly Cys Asn Leu  
 100 105 110  
 Glu Gly Phe Phe Ala Thr Leu Gly Gly Glu Ile Ala Leu Trp Ser Leu  
 115 120 125  
 Val Val Leu Ala Ile Glu Arg Tyr Val Val Val Cys Lys Pro Met Ser  
 130 135 140  
 Asn Phe Arg Phe Gly Glu Asn His Ala Ile Met Gly Val Ala Phe Thr  
 145 150 155 160  
 Trp Val Met Ala Leu Ala Cys Ala Ala Pro Pro Leu Ala Gly Trp Ser  
 165 170 175  
 Arg Tyr Ile Pro Glu Gly Leu Gln Cys Ser Cys Gly Ile Asp Tyr Tyr  
 180 185 190

Thr Leu Lys Pro Glu Val Asn Asn Glu Ser Phe Val Ile Tyr Met Phe  
195 200 205  
Val Val His Phe Thr Ile Pro Met Ile Ile Ile Phe Phe Cys Tyr Gly  
210 215 220  
Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu Ser  
225 230 235 240  
Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val Ile Ile  
245 250 255  
Met Val Ile Ala Phe Leu Ile Cys Trp Val Pro Tyr Ala Ser Val Ala  
260 265 270  
Phe Tyr Ile Phe Thr His Gln Gly Ser Asn Phe Gly Pro Ile Phe Met  
275 280 285  
Thr Ile Pro Ala Phe Phe Ala Lys Ser Ala Ala Ile Tyr Asn Pro Val  
290 295 300  
Ile Tyr Ile Met Met Asn Lys Gln Phe Arg Asn Cys Met Leu Thr Thr  
305 310 315 320  
Ile Cys Cys Gly Lys Asn Pro Leu Gly Asp Asp Glu Ala Ser Ala Thr  
325 330 335  
Val Ser Lys Thr Glu Thr Ser Gln Val Ala Pro Ala  
340 345